|   |            | Index of Claims |               |           |           |           |          |          |         |        |    |                             |          |          |                 | 10/519,801 Examiner |          |          |                        |           |          |          |          |            | Applicant(s)  Art Unit |                 |          |        |        |          | · · <del>· · · · · · · · · · · · · · · · · </del> |           |     |  |
|---|------------|-----------------|---------------|-----------|-----------|-----------|----------|----------|---------|--------|----|-----------------------------|----------|----------|-----------------|---------------------|----------|----------|------------------------|-----------|----------|----------|----------|------------|------------------------|-----------------|----------|--------|--------|----------|---|-----------|-----|--|
|   |            | ***             | [. <u>.</u> . |           |           |           |          |          |         |        |    |                             |          |          |                 | C.                  | xar      | nir      |                        | <b>4</b>  |          |          |          |            |                        |                 | Art Unit |        |        |          |   |           |     |  |
|   | ,          |                 | 1             | Rejected  |           |           | d        |          | [.      | -      | (Τ | (Through numer<br>Cancelled |          |          |                 | al)                 |          | N        | Nor                    | on-       | -Elected |          |          | A          | Appeal                 |                 |          |        |        |          |   |           |     |  |
|   |            |                 | 11            | Al        | lov       | vec       | 1        |          | •       |        |    | -                           | estri    |          |                 |                     |          |          | 1                      | In        | iter     | fere     | nce      |            | 0                      |                 | ОЫ       | ect    | ed     |          |   |           |     |  |
|   | Ci         | alm             | 1             |           |           |           | ate      |          |         |        | 1  | CI                          | aim      | T-       |                 |                     |          | Date     | <br>e                  |           |          | $\neg$   | Ci       | alm        | Т                      |                 |          | Dat    | te     |          |   | $\neg$    |     |  |
|   |            | T               |               | П         | T         | Ť         | Ĭ        | Т        | Т       | T      | 1  |                             |          |          | П               |                     |          |          |                        |           |          |          |          |            |                        |                 |          | T      | Τ      | П        | П   |           |     |  |
|   | Final      | Original        |               |           |           |           |          | 4        |         |        |    | Final                       | Original |          |                 |                     |          |          |                        |           |          |          | Final    | Original   |                        |                 |          |        |        |          |   |           |     |  |
|   |            | 0               |               | $\Box$    | 1         | 7         | 1        | 丰        | 1       | T      | 1  |                             | 51       |          |                 |                     | П        |          |                        | _         | $\dashv$ | _        |          | 101        |                        | $\Box$          | 1        | $\top$ | Ļ      | $\Box$   | П   | $\exists$ |     |  |
|   |            | 3               | H             | $\vdash$  | +         | +         | +        | +        |         | - -    | ┨╶ |                             | 52<br>53 | -        | -               | -                   | $\dashv$ |          | Н                      | $\dashv$  | $\dashv$ | -        | -        | 102        | ╁╌                     | +               | +-       | ╀      | +      |          | $\vdash$  | $\dashv$  |     |  |
|   | -          | 4               | Н             | $\vdash$  | +         | 十         | +        | +        | +       | +-     | 1  |                             | 54       |          |                 |                     |          |          |                        |           | コ        |          |          | 104        |                        |                 |          | 上      |        |          |   |           |     |  |
|   |            | 5               |               |           | $\Box$    | $\Box$    | 1        | $\bot$   | $\perp$ | I      | ]  |                             | 55       |          |                 |                     | $\Box$   |          |                        | $\Box$    | 4        | _        |          | 105        |                        | $\Box$          | $\bot$   |        | ļ      | Ш        | $\square$   | _         |     |  |
|   | -          | 7               | $\vdash$      | Н         | +         | +         | +        |          |         | +      | ┨  |                             | 56<br>57 | -        | Н               | Н                   | -        | $\dashv$ | $\vdash$               | -         | $\dashv$ |          | <u> </u> | 106        | -                      |                 | +        | +-     | ╁      | 1-1      | $\vdash$  | $\dashv$  |     |  |
|   |            | 8               |               |           |           |           | 士        | 士        | 土       |        | j  |                             | 58       |          |                 |                     |          |          |                        |           |          |          |          | 108        |                        |                 |          | 工      |        |          |   |           | •   |  |
|   |            | 9               |               | П         | $\Box$    | 4         | 4        | $\bot$   | $\perp$ | Į.     | ]  |                             | 59       | L        | Ц               | Ц                   | $\dashv$ |          | $\square$              | 4         | 4        | _        | ļ        | 109<br>110 | -                      | $\dashv$        | -        | +      | ┼      | $\vdash$ | $\vdash \vdash$                                   | 4         | • • |  |
|   | -          | 10              | $\vdash$      |           | +         | +         | +        | ╌        |         | ╁      | ┨  |                             | 60<br>61 | H        | Н               | -                   | $\dashv$ | $\dashv$ | Н                      | $\dashv$  | $\dashv$ | $\dashv$ |          | 111        | -                      | +               | +        | +      | ╫      | +        |   | $\dashv$  | •   |  |
|   |            | 12              |               |           | 士         | 士         | 1        | 士        | 土       |        | 1  |                             | 62       |          |                 |                     |          |          |                        |           | $\Box$   | コ        |          | 112        |                        |                 |          |        | 工      |          |   |           | •   |  |
| • | <u>.</u> . | 13              |               | Ц         |           | -         | 4        | _        | $\perp$ | 1      | 4  |                             | 63       | <u> </u> | Щ               |                     | $\dashv$ | -        |                        |           | $\dashv$ | 4        | <u> </u> | 113<br>114 | -                      | $\vdash$        | +        | +      | +-     | ╁╌       | $\vdash$  | _         |     |  |
|   | -          | 15              | Н             | $\vdash$  | +         | +         | +        | -        | +       | ╁      | ┨  |                             | 64<br>65 | H        | Н               |                     | -        | ᅱ        | Н                      |           | $\dashv$ | $\dashv$ | <u> </u> | 115        | 1                      |                 | +        | +      | +      | ╁        | H   | $\dashv$  |     |  |
|   |            | 16              |               |           | 士         | $\perp$   | +        | 1        | 士       |        | j  |                             | 66       |          |                 |                     |          |          |                        | $\exists$ |          | ゴ        |          | 116        |                        |                 | 土        |        |        |          |   |           |     |  |
|   |            | 17              |               |           | $\Box$    | 1         | $\Box$   | $\Box$   | $\perp$ |        | ]  |                             | 67       |          | П               |                     |          |          |                        | _         | _        | 4        |          | 117        | _                      |                 | 1        | 1      | 4      | $\sqcup$ |   | 4         |     |  |
|   | -          | 18              | $\vdash$      | $\dashv$  | +         | +         | +        |          | +       | ╀      | 1  |                             | 68<br>69 | $\vdash$ | Н               | $\dashv$            |          | -        | $\dot{H}$              | $\dashv$  | -        | $\dashv$ | -        | 118<br>119 | +-                     | +               | +-       | ╁      | +      | +        | H   |           |     |  |
|   | -          | 20              | Н             | $\forall$ | $\dagger$ | $\dagger$ | +        | 十        | +       | $\top$ | 1  |                             | 70       |          |                 |                     |          |          |                        |           |          |          |          | 120        |                        |                 | 土        | 士      |        |          |   |           |     |  |
|   |            | 21              |               | $\Box$    | $\Box$    | $\Box$    | 1        | 1        | $\Box$  | I      | ]  |                             | 71       |          | П               |                     |          |          |                        | $\dashv$  | _        | _        | <u> </u> | 121        | _                      |                 | 4        | 1      | 1_     |          |   | _         |     |  |
|   | -          | 22<br>23        | Н             | $\dashv$  | +         | +         | +        | +        | ╬       | ╁      | 1  |                             | 72<br>73 | Н        | Н               | $\dashv$            | $\dashv$ | $\dashv$ | Н                      | -         | ᆉ        | -        | <u> </u> | 122<br>123 | -                      |                 | +        | ╁      | ╁      | +        | Н   | $\dashv$  |     |  |
|   |            | 24              | Н             |           | _         | Ť         | $\top$   | 十        | +       | 1      | 1  |                             | 74       |          |                 |                     |          |          |                        |           | 1        |          |          | 124        |                        |                 | 士        | 1      |        |          |   | ゴ         |     |  |
|   |            | 25              |               | $\Box$    | $\Box$    | 7         | 1        |          |         |        | 1  |                             | 75       |          |                 |                     |          |          |                        |           | $\dashv$ | _        |          | 125        |                        | Ц.              | 4        | -      | 1_     |          | Н   | $\dashv$  |     |  |
|   |            | 26<br>27        | H             | $\dashv$  | +         | +         | +        | +        | +       | +-     | ┨  |                             | 76<br>77 | $\vdash$ | Н               |                     |          | $\dashv$ | ┝╌┨                    | -         | $\dashv$ | $\dashv$ | $\vdash$ | 126<br>127 | -                      | $\vdash$        | +        | ╁      | ╁      | +        | Н   | $\dashv$  | •   |  |
|   |            | 28              | Н             | $\vdash$  | $\dashv$  | 十         | $\dashv$ | 十        | 十       | +      | 1  |                             | 78       |          | Н               |                     |          |          |                        |           |          |          |          | 128        |                        |                 |          |        |        |          |   |           | •   |  |
|   |            | 29              |               |           | $\Box$    | $\Box$    | $\perp$  |          | $\perp$ |        | ]  |                             | 79       |          |                 |                     |          |          |                        |           | $\Box$   |          |          | 129        |                        | $\Box$          |          | 1      | 1      | Ш        |   | _         |     |  |
|   | -          | 30              | Н             | $\dashv$  | +         | +         | $\dashv$ |          | - -     | +-     | ┨╶ |                             | 80<br>81 | -        | Н               | $\dashv$            | -        |          | $\vdash$               |           | $\dashv$ | $\dashv$ |          | 130<br>131 | ╁                      | -               | +        | ╁      | ╁      | +        | $\vdash$  | $\dashv$  |     |  |
|   | -          | 32              | Н             | -         | $\dashv$  | +         | +        | 十        | +       | +      | 1  |                             | 82       |          | Н               |                     |          |          | H                      |           |          |          |          | 132        |                        |                 |          |        |        |          |   | ゴ         |     |  |
|   |            | 33              |               |           |           | $\Box$    | $\Box$   | 1        | 1       |        | 1  |                             | 83       |          |                 |                     |          |          |                        |           | $\Box$   |          |          | 133        |                        | П.              |          | 1_     | - -    | $\perp$  | $\sqcup$  | _         |     |  |
|   | -          | 34<br>35        | Н             | -         |           | +         | +        | -        | -       | ╀      | -  |                             | 84<br>85 | -        | $\vdash$        | Н                   | $\dashv$ |          | Н                      |           | -        | $\dashv$ | -        | 134<br>135 |                        | +               |          | +      | +-     | +        | Н   | -         |     |  |
|   |            | 36              | Н             | +         | +         | +         | +        | $\dashv$ | +       | ╁      | 1  |                             | 86       |          | Н               |                     | $\dashv$ | _        | Н                      |           | 寸        |          |          | 136        |                        | $\Box$          | 士        |        |        |          |   | ゴ         |     |  |
|   |            | 37              |               |           | 1         |           |          |          |         | 工      | ]  |                             | 87       |          | ·               |                     |          |          |                        |           | $\Box$   | $\Box$   |          | 137        |                        |                 |          | 1_     | 1      | 1        | Ц   | $\Box$    |     |  |
|   | -          | 38              | Н             | $\dashv$  |           | 4         | 4        | - -      |         | - -    | -  |                             | 88<br>89 | Ш        | H               | -                   |          |          | H                      |           | -        |          |          | 138<br>139 |                        | $\vdash$        | - -      |        | ╀      | +-       | $\vdash \vdash$                                   |           |     |  |
|   | -          | 39<br>40        | Н             | -+        | +         | +         | +        | +        | +       | +      | 1  |                             | 90       | $\vdash$ | $\vdash$        | $\vdash$            | $\vdash$ |          | H                      | $\dashv$  | $\dashv$ | $\dashv$ | :        | 140        |                        | $\vdash$        | +        | +-     | +      | +        | $\vdash \vdash$                                   | $\dashv$  |     |  |
|   |            | 41              |               |           | $\perp$   | _         | $\top$   | 1        |         | 1      | 1  |                             | 91       |          |                 |                     |          |          |                        |           |          |          | -        | 141        |                        |                 |          |        |        |          | 口   |           |     |  |
|   |            | 42              | П             |           | $\Box$    | Ţ         | 1        | T        | 1       |        | ]  |                             | 92       |          |                 |                     |          |          | $\Box$                 | $\dashv$  | $\dashv$ | _        |          | 142        | 1                      | $\Box$          | 1        | +      | +      | 4        | $\vdash \vdash$                                   | _         |     |  |
|   | -          | 43              | Н             | -         | $\dashv$  | +         | +        | +        | - -     | +      | -  |                             | 93<br>94 | -        | $\vdash$        | $\vdash$            | $\vdash$ | _        | H                      | $\dashv$  | $\dashv$ | -  -     | -        | 143        |                        | $\vdash \vdash$ | +        | +      | +-     | +        | H   | $\dashv$  |     |  |
|   |            | 45              | H             |           | +         | +         | +        | +        | +       | +-     | 1  |                             | 95       |          |                 | $\exists$           | H        |          |                        | $\exists$ | ╗        | $\dashv$ |          | 145        | 上                      | 廿               | 士        | 士      |        | 1        |   |           |     |  |
|   |            | 46              |               |           |           |           | 士        |          | 1       |        | 1  |                             | 96       |          |                 |                     |          |          |                        |           | $\Box$   |          |          | 146        |                        |                 |          | I      | $\bot$ |          | П   |           |     |  |
|   |            | 47              | $\sqcup$      | $\perp$   | 4         | 1         | 4        | 4        | 4       | 4-     |    |                             | 97       | <u> </u> | $\vdash \vdash$ | Щ                   | $\dashv$ |          | $\mid \downarrow \mid$ | _         | _        | $\dashv$ | -        | 147<br>148 | ┼                      | $\vdash \vdash$ | +        | +      | +-     | +-       | ╂╌╢   | $\dashv$  |     |  |
|   | -          | 48              | $\vdash$      | $\dashv$  | +         | +         | +        | +        | +       | +-     | 1  |                             | 98<br>99 | $\vdash$ | $\vdash$        | -                   | $\dashv$ |          | H                      | $\dashv$  | $\dashv$ | $\dashv$ | -        | 149        |                        | $\vdash \vdash$ | +        | ╁      | +      | +-       | ╁┤  | $\dashv$  |     |  |
|   | <b> </b>   | 50              | $\vdash$      | $\dashv$  |           | +         |          | +        | +       | +-     | 1  |                             | 100      | 1        | 1               | Н                   | $\vdash$ |          | $\vdash$               | -         | -        | $\neg$   | -        | 150        |                        | $\vdash$        | $\top$   | 1      | 1      | 1        | I   | $\neg$    |     |  |